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ABSTRACT

An anti-deflagrating actuator adapted to operate in an explosion risk environment includes an external power source and internal components such as a gear reducer, and one of a motion transmission mechanism and a mechanism for transforming rotary motion into linear motion. The internal components are integrally protected within an external housing having a uniform area of free volume that is formed in a shape that outlines the internal components. The actuator further includes a plurality of outlets for connecting electrical power and other control connections received from external sources. These outlets are positioned on the external housing so that they prevent, among other things, kinking of the wiring, which can impair wiring resistance.

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